




## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of<br>Invention  | HIGH VOLTAGE GaN-BASED TRANSISTOR STRUCTURE |            |            |               |      |       |          |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
|--|---|------------|------------|---------------|------|-------|----------|------|----------|------------|------|----------|------|-------|----------|----|---|---------|------------|-------|--|-----|-----|----|---|---------|------------|-------|--|-----|-----|----|---|---------|------------|-------------|--|-----|-----|----|---|---------|------------|--------|--|-----|-----|----|---|---------|------------|-----|--|-----|-----|----|---|---------|------------|---------------|--|-----|-----|----|---|---------|------------|-----------|--|-----|-----|----|---|---------|------------|-------------|--|-----|-----|----|---|---------|------------|-----------|--|-----|----|----|----|---------|------------|---------------|--|-----|-----|----|----|---------|------------|---------------|--|-----|----|----|----|---------|------------|--------|--|-----|-----|----|----|---------|------------|---------------|--|-----|-----|
| <p>Application Number: 10/689979 </p> <p>Confirmation Number: 3803</p> <p>First Named Applicant: Joseph Smart</p> <p>Attorney Docket Number: 2867-207</p> <p>Art Unit: 2814</p> <p>Examiner: <del>Wael M. Fahmy</del> <i>Theresa Doan</i></p> <p>Search string: ( 5608353 or 5629648 or 6130579 or 6191656<br/>or 6229395 or 6265943 or 6271727 or 6285239<br/>or 6307364 or 6313705 or 6329809 or 6333677<br/>or 6356150 or 6369656 or 6369657 or 6384433<br/>or 6392487 or 6404287 or 6525611 or 6528983<br/>or 6560452 or 6566963 or 6701134 or 6701138<br/>or 6720831 or 6724252 or 6750482 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>TD</td><td>1</td><td>5608353</td><td>1997-03-04</td><td>Pratt</td><td></td><td>330</td><td>295</td></tr><tr><td>TD</td><td>2</td><td>5629648</td><td>1997-05-13</td><td>Pratt</td><td></td><td>330</td><td>289</td></tr><tr><td>TD</td><td>3</td><td>6130579</td><td>2000-10-10</td><td>Iyer et al.</td><td></td><td>330</td><td>285</td></tr><tr><td>TD</td><td>4</td><td>6191656</td><td>2001-02-20</td><td>Nadler</td><td></td><td>330</td><td>288</td></tr><tr><td>TD</td><td>5</td><td>6229395</td><td>2001-05-08</td><td>Kay</td><td></td><td>330</td><td>252</td></tr><tr><td>TD</td><td>6</td><td>6265943</td><td>2001-07-24</td><td>Dening et al.</td><td></td><td>330</td><td>296</td></tr><tr><td>TD</td><td>7</td><td>6271727</td><td>2001-08-07</td><td>Schmukler</td><td></td><td>330</td><td>284</td></tr><tr><td>TD</td><td>8</td><td>6285239</td><td>2001-09-04</td><td>Iyer et al.</td><td></td><td>327</td><td>531</td></tr><tr><td>TD</td><td>9</td><td>6307364</td><td>2001-10-23</td><td>Augustine</td><td></td><td>324</td><td>95</td></tr><tr><td>TD</td><td>10</td><td>6313705</td><td>2001-11-06</td><td>Dening et al.</td><td></td><td>330</td><td>276</td></tr><tr><td>TD</td><td>11</td><td>6329809</td><td>2001-12-11</td><td>Dening et al.</td><td></td><td>324</td><td>95</td></tr><tr><td>TD</td><td>12</td><td>6333677</td><td>2001-12-25</td><td>Dening</td><td></td><td>330</td><td>296</td></tr><tr><td>TD</td><td>13</td><td>6356150</td><td>2002-03-12</td><td>Spears et al.</td><td></td><td>330</td><td>145</td></tr></tbody></table> |   |            |            |               |      |       |          | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | TD | 1 | 5608353 | 1997-03-04 | Pratt |  | 330 | 295 | TD | 2 | 5629648 | 1997-05-13 | Pratt |  | 330 | 289 | TD | 3 | 6130579 | 2000-10-10 | Iyer et al. |  | 330 | 285 | TD | 4 | 6191656 | 2001-02-20 | Nadler |  | 330 | 288 | TD | 5 | 6229395 | 2001-05-08 | Kay |  | 330 | 252 | TD | 6 | 6265943 | 2001-07-24 | Dening et al. |  | 330 | 296 | TD | 7 | 6271727 | 2001-08-07 | Schmukler |  | 330 | 284 | TD | 8 | 6285239 | 2001-09-04 | Iyer et al. |  | 327 | 531 | TD | 9 | 6307364 | 2001-10-23 | Augustine |  | 324 | 95 | TD | 10 | 6313705 | 2001-11-06 | Dening et al. |  | 330 | 276 | TD | 11 | 6329809 | 2001-12-11 | Dening et al. |  | 324 | 95 | TD | 12 | 6333677 | 2001-12-25 | Dening |  | 330 | 296 | TD | 13 | 6356150 | 2002-03-12 | Spears et al. |  | 330 | 145 |
| init   | Cite.No.                                    | Patent No. | Date       | Patentee      | Kind | Class | Subclass |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 1   | 5608353    | 1997-03-04 | Pratt         |      | 330   | 295      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 2   | 5629648    | 1997-05-13 | Pratt         |      | 330   | 289      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 3   | 6130579    | 2000-10-10 | Iyer et al.   |      | 330   | 285      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 4   | 6191656    | 2001-02-20 | Nadler        |      | 330   | 288      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 5   | 6229395    | 2001-05-08 | Kay           |      | 330   | 252      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 6   | 6265943    | 2001-07-24 | Dening et al. |      | 330   | 296      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 7   | 6271727    | 2001-08-07 | Schmukler     |      | 330   | 284      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 8   | 6285239    | 2001-09-04 | Iyer et al.   |      | 327   | 531      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 9   | 6307364    | 2001-10-23 | Augustine     |      | 324   | 95       |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 10  | 6313705    | 2001-11-06 | Dening et al. |      | 330   | 276      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 11  | 6329809    | 2001-12-11 | Dening et al. |      | 324   | 95       |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 12  | 6333677    | 2001-12-25 | Dening        |      | 330   | 296      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |
| TD   | 13  | 6356150    | 2002-03-12 | Spears et al. |      | 330   | 145      |      |          |            |      |          |      |       |          |    |   |         |            |       |  |     |     |    |   |         |            |       |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |        |  |     |     |    |   |         |            |     |  |     |     |    |   |         |            |               |  |     |     |    |   |         |            |           |  |     |     |    |   |         |            |             |  |     |     |    |   |         |            |           |  |     |    |    |    |         |            |               |  |     |     |    |    |         |            |               |  |     |    |    |    |         |            |        |  |     |     |    |    |         |            |               |  |     |     |

|    |    |         |            |                 |     |       |
|----|----|---------|------------|-----------------|-----|-------|
| TD | 14 | 6369656 | 2002-04-09 | Dening et al.   | 330 | 296   |
| TD | 15 | 6369657 | 2002-04-09 | Dening et al.   | 330 | 296   |
| TD | 16 | 6384433 | 2002-05-07 | Barratt et al.  | 257 | 197   |
| TD | 17 | 6392487 | 2002-05-21 | Alexanian       | 330 | 254   |
| TD | 18 | 6404287 | 2002-06-11 | Dening et al.   | 330 | 296   |
| TD | 19 | 6525611 | 2003-02-25 | Dening et al.   | 330 | 298   |
| TD | 20 | 6528983 | 2003-03-04 | Augustine       | 324 | 95    |
| TD | 21 | 6560452 | 2003-05-06 | Shealy          | 455 | 333   |
| TD | 22 | 6566963 | 2003-05-20 | Yan et al.      | 330 | 311   |
| TD | 23 | 6701134 | 2004-03-02 | Epperson        | 455 | 102   |
| TD | 24 | 6701138 | 2004-03-02 | Epperson et al. | 455 | 127.3 |
| TD | 25 | 6720831 | 2004-04-13 | Dening et al.   | 330 | 298   |
| TD | 26 | 6724252 | 2004-04-20 | Ngo et al.      | 330 | 133   |
| TD | 27 | 6750482 | 2004-06-15 | Seaford et al.  | 257 | 191   |

Signature

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|----------------|----------------|
| Examiner Name  | Date           |
| <i>2/10/05</i> | <i>1/05/05</i> |